

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/441,061DATE: 01/29/2000  
TIME: 02:57:05

INPUT SET: S34566.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

ENTERED

## (1) General Information:

- (i) APPLICANT: ENDL, Josef  
STAHL, Peter  
ALBERT, Winfried  
JUNG, Guenther-Gerhard  
SCHENDEL, Dolores J.  
MEINL, Edgar  
DORNMAIR, Klaus

- (ii) TITLE OF INVENTION: ANTIGEN-SPECIFIC, ACTIVATED T  
LYMPHOCYTES, DETECTION AND USE

- (iii) NUMBER OF SEQUENCES: 39

## (iv) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Nikaido, Marmelstein, Murray & Oram LLP  
(B) STREET: 655 Fifteenth Street N.W. Suite 330  
(C) CITY: Washington  
(D) STATE: D.C.  
(E) COUNTRY: U.S.A.  
(F) ZIP: 20005-5701

## (v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

## (vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: 09/441,061  
(B) FILING DATE:  
(C) CLASSIFICATION:

## (vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: US 08/374,468  
(B) FILING DATE: 18-JAN-1995

- (A) APPLICATION NUMBER: DE P 44 01 629.8  
(B) FILING DATE: 20-JAN-1994

## (vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: DE P 44 03 522.5  
(B) FILING DATE: 04-FEB-1994

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47  
48 (vii) PRIOR APPLICATION DATA:  
49 (A) APPLICATION NUMBER: DE P 44 18 091.8  
50 (B) FILING DATE: 24-MAY-1994  
51  
52 (viii) ATTORNEY/AGENT INFORMATION:  
53 (A) NAME: Murray, Robert B.  
54 (B) REGISTRATION NUMBER: 22,980  
55 (C) REFERENCE/DOCKET NUMBER: P564-U5002  
56  
57 (ix) TELECOMMUNICATION INFORMATION:  
58 (A) TELEPHONE: (202)638-5000  
59 (B) TELEFAX: (202)638-4810  
60  
61  
62 (2) INFORMATION FOR SEQ ID NO:1:  
63  
64 (i) SEQUENCE CHARACTERISTICS:  
65 (A) LENGTH: 8 amino acids  
66 (B) TYPE: amino acid  
67 (C) STRANDEDNESS:  
68 (D) TOPOLOGY: linear  
69  
70 (ii) MOLECULE TYPE: peptide  
71  
72  
73 (ix) FEATURE:  
74 (A) NAME/KEY: Peptide  
75 (B) LOCATION: 1  
76 (D) OTHER INFORMATION: /note= "Xaa in position 1 is an  
77 optional sequence selected from 1 to 10 amino acids."  
78  
79 (ix) FEATURE:  
80 (A) NAME/KEY: Peptide  
81 (B) LOCATION: 6  
82 (D) OTHER INFORMATION: /note= "Xaa in position 6 is Thr or Glu."  
83  
84 (ix) FEATURE:  
85 (A) NAME/KEY: Peptide  
86 (B) LOCATION: 8  
87 (D) OTHER INFORMATION: /note= "Xaa in position 8 is  
88 an optional sequence selected from 1 to 8 amino acids."  
89  
90  
91 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
92  
93 Xaa Pro Glu Val Lys Xaa Lys Xaa  
94 1 5  
95  
96 (2) INFORMATION FOR SEQ ID NO:2:  
97  
98 (i) SEQUENCE CHARACTERISTICS:  
99 (A) LENGTH: 25 amino acids

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100 (B) TYPE: amino acid  
101 (C) STRANDEDNESS:  
102 (D) TOPOLOGY: linear  
103  
104 (ii) MOLECULE TYPE: peptide  
105  
106  
107  
108 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
109  
110 Gly Met Ala Ala Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser  
111 1 5 10 15  
112  
113 His Phe Ser Leu Lys Lys Gly Ala Ala  
114 20 25  
115  
116 (2) INFORMATION FOR SEQ ID NO:3:  
117  
118 (i) SEQUENCE CHARACTERISTICS:  
119 (A) LENGTH: 20 amino acids  
120 (B) TYPE: amino acid  
121 (C) STRANDEDNESS:  
122 (D) TOPOLOGY: linear  
123  
124 (ii) MOLECULE TYPE: peptide  
125  
126  
127 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
128  
129 Glu Arg Gly Lys Met Ile Pro Ser Asp Leu Glu Arg Arg Ile Leu Glu  
130 1 5 10 15  
131  
132 Ala Lys Gln Lys  
133 20  
134  
135 (2) INFORMATION FOR SEQ ID NO:4:  
136  
137 (i) SEQUENCE CHARACTERISTICS:  
138 (A) LENGTH: 14 amino acids  
139 (B) TYPE: amino acid  
140 (C) STRANDEDNESS:  
141 (D) TOPOLOGY: linear  
142  
143 (ii) MOLECULE TYPE: peptide  
144  
145  
146 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
147  
148 Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser His Phe  
149 1 5 10  
150  
151 (2) INFORMATION FOR SEQ ID NO:5:  
152

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153 (i) SEQUENCE CHARACTERISTICS:  
154 (A) LENGTH: 20 amino acids  
155 (B) TYPE: amino acid  
156 (C) STRANDEDNESS:  
157 (D) TOPOLOGY: linear  
158  
159 (ii) MOLECULE TYPE: peptide  
160  
161  
162  
163 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
164  
165 Gly Met Ala Ala Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser  
166 1 5 10 15  
167  
168 His Phe Ser Leu  
169 20  
170  
171 (2) INFORMATION FOR SEQ ID NO:6:  
172  
173 (i) SEQUENCE CHARACTERISTICS:  
174 (A) LENGTH: 20 amino acids  
175 (B) TYPE: amino acid  
176 (C) STRANDEDNESS:  
177 (D) TOPOLOGY: linear  
178  
179 (ii) MOLECULE TYPE: peptide  
180  
181  
182  
183 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
184  
185 Ala Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser His Phe Ser  
186 1 5 10 15  
187  
188 Leu Lys Lys Gly  
189 20  
190  
191 (2) INFORMATION FOR SEQ ID NO:7:  
192  
193 (i) SEQUENCE CHARACTERISTICS:  
194 (A) LENGTH: 20 amino acids  
195 (B) TYPE: amino acid  
196 (C) STRANDEDNESS:  
197 (D) TOPOLOGY: linear  
198  
199 (ii) MOLECULE TYPE: peptide  
200  
201 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
202  
203 Arg Leu Ile Ala Phe Thr Ser Glu His Ser His Phe Ser Leu Lys Lys  
204 1 5 10 15  
205

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206 Gly Ala Ala Ala  
207 20  
208  
209 (2) INFORMATION FOR SEQ ID NO:8:  
210  
211 (i) SEQUENCE CHARACTERISTICS:  
212 (A) LENGTH: 20 amino acids  
213 (B) TYPE: amino acid  
214 (C) STRANDEDNESS:  
215 (D) TOPOLOGY: linear  
216  
217 (ii) MOLECULE TYPE: peptide  
218  
219  
220  
221 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:  
222  
223 Pro Glu Val Lys Glu Lys Gly Met Ala Ala Leu Pro Arg Leu Ile Ala  
224 1 5 10 15  
225  
226 Phe Thr Ser Glu  
227 20  
228  
229 (2) INFORMATION FOR SEQ ID NO:9:  
230  
231 (i) SEQUENCE CHARACTERISTICS:  
232 (A) LENGTH: 18 amino acids  
233 (B) TYPE: amino acid  
234 (C) STRANDEDNESS:  
235 (D) TOPOLOGY: linear  
236  
237 (ii) MOLECULE TYPE: peptide  
238  
239  
240  
241 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:  
242  
243 Ala Ala Leu Pro Arg Leu Ile Ala Phe Thr Ser Glu His Ser His Phe  
244 1 5 10 15  
245  
246 Ser Leu  
247  
248  
249 (2) INFORMATION FOR SEQ ID NO:10:  
250  
251 (i) SEQUENCE CHARACTERISTICS:  
252 (A) LENGTH: 16 amino acids  
253 (B) TYPE: amino acid  
254 (C) STRANDEDNESS:  
255 (D) TOPOLOGY: linear  
256  
257 (ii) MOLECULE TYPE: peptide  
258

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**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/09/441,061**

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Original Text